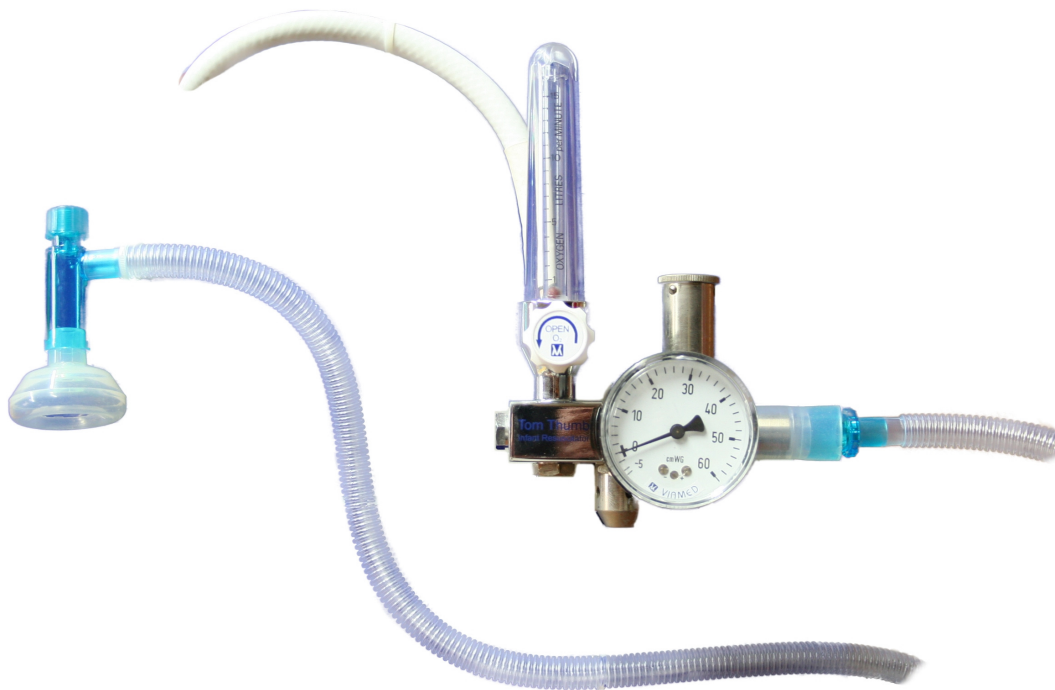


TOM THUMB INFANT RESUSCITATOR END USER TRAINING PROGRAMME



CE0086

TOM THUMB INFANT RESUSCITATOR

Precautions

Refer to instructions before use.

For use only by qualified, trained personnel.

Do not operate the device if it appears damaged.

Servicing and maintenance should be restricted to qualified technical personnel.

Overview

The Tom Thumb Infant Resuscitator is a device designed to deliver oxygen, or blended gas if used with an air/oxygen blender, at controlled flow and pressure for the purpose of resuscitation. It is intended for use with neonatal and infant patients only.

The Tom Thumb Infant Resuscitator is supplied in one of two variants: the TT490-15, which has a 3m oxygen hose terminated with a BS probe, or the TT480, which is designed to be connected to an existing flowmeter or air / oxygen blender via low-pressure tubing.

The Tom Thumb allows the delivery of oxygen at controlled flow and pressure. A flowmeter is used to control the flow rate of oxygen, and the adjustable pressure relief valve is used to set the Peak Inflation Pressure (PIP).

The Tom Thumb is supplied with a variable PEEP circuit, allowing the user to set the Positive End-Expiratory Pressure (PEEP) using an adjustable valve on the T-piece.



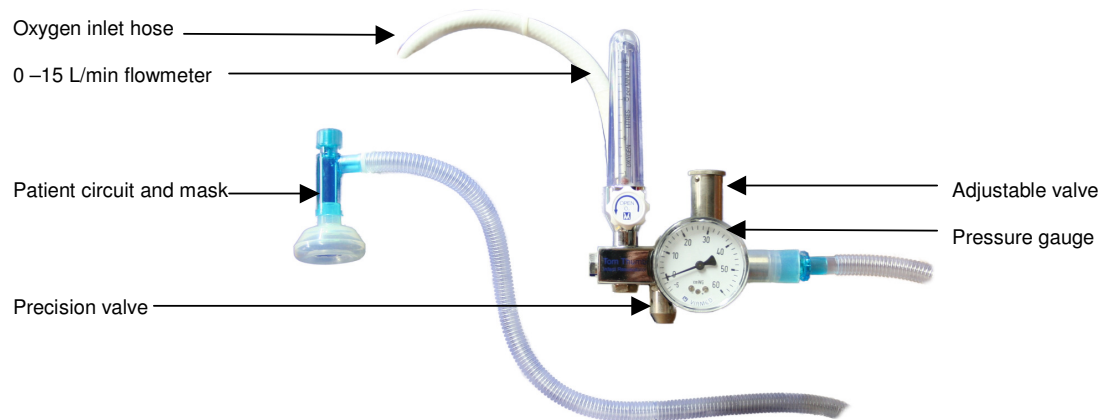
The Tom Thumb incorporates a secondary precision blow-off valve for added safety, this is located on the underside of the Tom Thumb and is not user-adjustable. If it is noticed that the precision valve is venting gas during normal operation, consult the relevant qualified technical personnel or contact Viamed.

Mounting the Tom Thumb

All variants of Tom Thumb have an integral 'Medirail' mounting bracket to allow connection to standard rail mounting systems.



TT490-15



The model TT490-15 Tom Thumb has an integral 0 – 15 L/min flowmeter with high-pressure oxygen hose terminated with a BS probe for connection to a wall oxygen outlet or an oxygen cylinder.

The oxygen hose can be either 3 m or 1 m in length; the 3 m version is primarily for use within an infant resuscitation cabinet to allow enough length to reach the oxygen supply.

The 1 m version is more commonly used in neonatal units (NICU/SCBU), and is best suited to being placed in a fixed position within 1 m of the oxygen supply: typically this will be mounted on wall-mounted 'Medirail' and utilise a wall oxygen outlet.



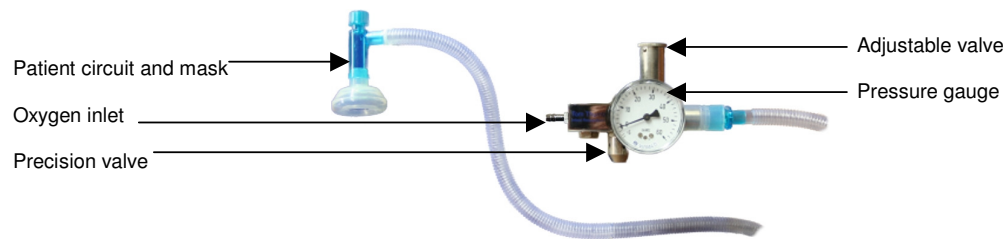
CAUTION

Do not operate the Tom Thumb TT490-15 at flow rates in excess of 15 Litres/minute.

Do not apply the mask to the patient until the pre-use checks have been completed and the pressures have been set.

Do not attempt to adjust the precision valve.

TT480



The model TT480 Tom Thumb has a tapered oxygen inlet connection, sometimes referred to as a 'Fir Tree' or 'Christmas Tree' connector, which is designed to connect to an existing flowmeter via narrow bore tubing.

The TT480 can also be used to deliver a blended gas mix when used with an air/oxygen blender.

As the inlet tubing can be cut to any length to suit, the TT480 can be mounted at any distance from the oxygen source.



CAUTION

Do not attempt to operate the Tom Thumb TT480 at flow rates in excess of 10 litres/min.

Do not apply the mask to the patient until the pre-use checks have been completed and the pressures have been set.

Do not attempt to adjust the precision valve.

Pre-use Checks

Ensure that the Tom Thumb is connected to a supply of oxygen.

If using a Tom Thumb TT490-15, the high-pressure oxygen hose must be connected to the external wall oxygen supply.

If using a Tom Thumb TT480, the Tom Thumb must be connected to an external flowmeter or air / oxygen blender via low-pressure tubing.

Check that the Tom Thumb pressure gauge reads zero, if the needle is outside of the black band then the Tom Thumb requires servicing.

Connect the patient tubing to the Tom Thumb outlet using a 15mm to 15mm adapter.

Connect a suitably sized mask to the T-piece of the patient circuit.

Check and Set the Peak Inflation Pressure (PIP)

Set the flowmeter to the required flow rate. The Tom Thumb is now delivering oxygen freely through the patient circuit.

Occlude the mask by pressing it against a clean, smooth, airtight surface: the interior of the plastic bag that the circuit was packaged in is clinically clean and can be used for this purpose.

Occlude the T-piece port with a finger or thumb, ensuring a completely gas-tight seal around the mask.

The adjustable valve will now be venting off excess gas and the pressure gauge on the front of the Tom Thumb will display the pressure in cm of water pressure (cm H₂O / cm WG) that the Tom Thumb is delivering.

To set the Peak Inflation Pressure, gradually turn the adjustable valve control clockwise whilst keeping the mask and T-piece port occluded until the required pressure is shown on the pressure gauge.

Note: when setting the PIP pressure, the needle on the gauge of the Tom Thumb should be stable and oxygen will be heard hissing from the adjustable valve. If the needle is not stable and no hissing can be heard, it is likely that the mask or T-piece outlet port is not entirely occluded; check the seal by repositioning the mask until a stable reading is achieved.

If Positive End-Expiratory Pressure (PEEP) is required, uncover the T-piece port whilst keeping the mask occluded: the PEEP pressure is displayed on the gauge.

To set the required level of PEEP, rotate the cap on the T-piece port until the correct level is achieved. Note: the level of PEEP that can be achieved is proportional to flow rate. Higher flow rates allow higher PEEP.

The Tom Thumb is now ready for use.



CAUTION

Always set the flow rate **before** setting the outlet pressure. If the flow rate is subsequently altered, always check and, if necessary, re-set the pressure.

Resuscitation

Immediately prior to using the Tom Thumb for resuscitation, always make a final check to ensure that the flow and pressure settings are appropriate for the patient.

Resuscitation is performed by placing the mask over the infant's airway, occluding the outlet port to deliver an inflation breath and uncovering the port to allow exhalation.

Follow the Trust / hospital guidelines for resuscitation, and if in doubt consult your key trainer or a relevant qualified person.

During resuscitation, the needle on the gauge will rise to the preset pressure at the top of each inflation breath and it may be possible to hear gas hissing from the adjustable valve.



CAUTION

It is important to observe the patient for proper chest inflation, if chest inflation is not observed or the needle is not reaching the preset pressure, it is likely that a good seal around the patient's airway has not been achieved.

Cleaning

The Tom Thumb should be cleaned after each use; full cleaning instructions are contained in the Operator's Manual.

Cleaning guidelines complement those given in the Medical Devices Agency document "Sterilization, disinfection and cleaning of medical equipment: guidance on decontamination from the Microbiology Advisory Committee to Department of Health Medical Devices Agency". This document is more commonly known as the 'MAC Manual', and is referred to as such in this document for convenience.

With reference to the MAC Manual, "Introduction to Part 1 - Table 1: Classification of infection risk associated with the decontamination of medical devices"; the Tom Thumb Infant Resuscitator is classified as low risk, due to being "In contact with healthy skin, or not in contact with the patient".

The recommended decontamination method for low risk items is to clean in accordance with the guidelines in the MAC Manual "Part 2; Cleaning (manual) - non-immersion".

Please consult the latest revision of the MAC Manual for further details.

The patient circuit is intended for single patient use only and should be disposed of after use.



WARNING

Do not attempt to reprocess items that are intended for single patient use.

Warranty

All parts of the Viamed wall mounted infant resuscitation cabinet system are guaranteed for a period of 12 months from the date of purchase.

The best materials and workmanship have been employed throughout every stage of manufacture and every part is thoroughly tested before dispatch.

This warranty covers defects in material and manufacture but excludes damage caused by accident, misuse or neglect.

Should a component develop a defect within the warranty period, it will be repaired or replaced at Viamed's discretion.

In the event of warranty claims or queries regarding this product when purchased outside the UK, please contact your local distributor.